



March 19, 2024

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**RE: Airport Road
Waters of the U.S. Delineation Report
Bay Minette, Baldwin County, Alabama**

Goodwyn Mills Cawood, LLC (GMC) has completed a waters of the U.S. delineation, including wetlands and streams, on the ±35.8-acre site located off of Airport Road in Bay Minette, Baldwin County, Alabama. The center coordinates for the project site are latitude 30.882772° and longitude -87.793680°.

The project site consisted of a forested area in the northern and southern portion with an access road and shrubland area throughout the central portion of the property. The surface water on the property flows offsite towards the southwest direction.

GMC visited the project site on February 27, 2024 to identify and delineate potential jurisdictional waters of the U.S. including wetlands and streams. Wetland areas were delineated in accordance with the *1987 U.S. Army Corps of Engineers Wetland Delineation Manual* and the *2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region*. The wetlands were delineated using soil augers to sample and compare soil colors against the Munsell color chart to determine whether the soils meet the USACE criteria of hydric soils. The wetland boundaries were flagged according to the three required wetland criteria (vegetation, hydrology, and soils). Streams were classified as ephemeral, intermittent, or perennial. Potential waters of the U.S. identified on site were surveyed with a mapping grade (sub meter) GPS system. Please refer to the attached Wetland Data Determination sheet for the conditions of wetland criteria found on site.

No wetlands and four (4) non-jurisdictional ephemeral ditches, totaling approximately ±782.3 linear feet (lf), were identified on the project site. The locations of each ditch and dry soil plug locations are marked on the attached maps. Please refer to attached photographs of the soils and site conditions.

Sincerely,


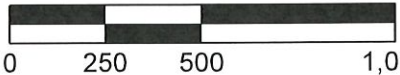
Ashtyn Walmsley
Environmental Scientist



 SUBJECT SITE (35.8 ac)

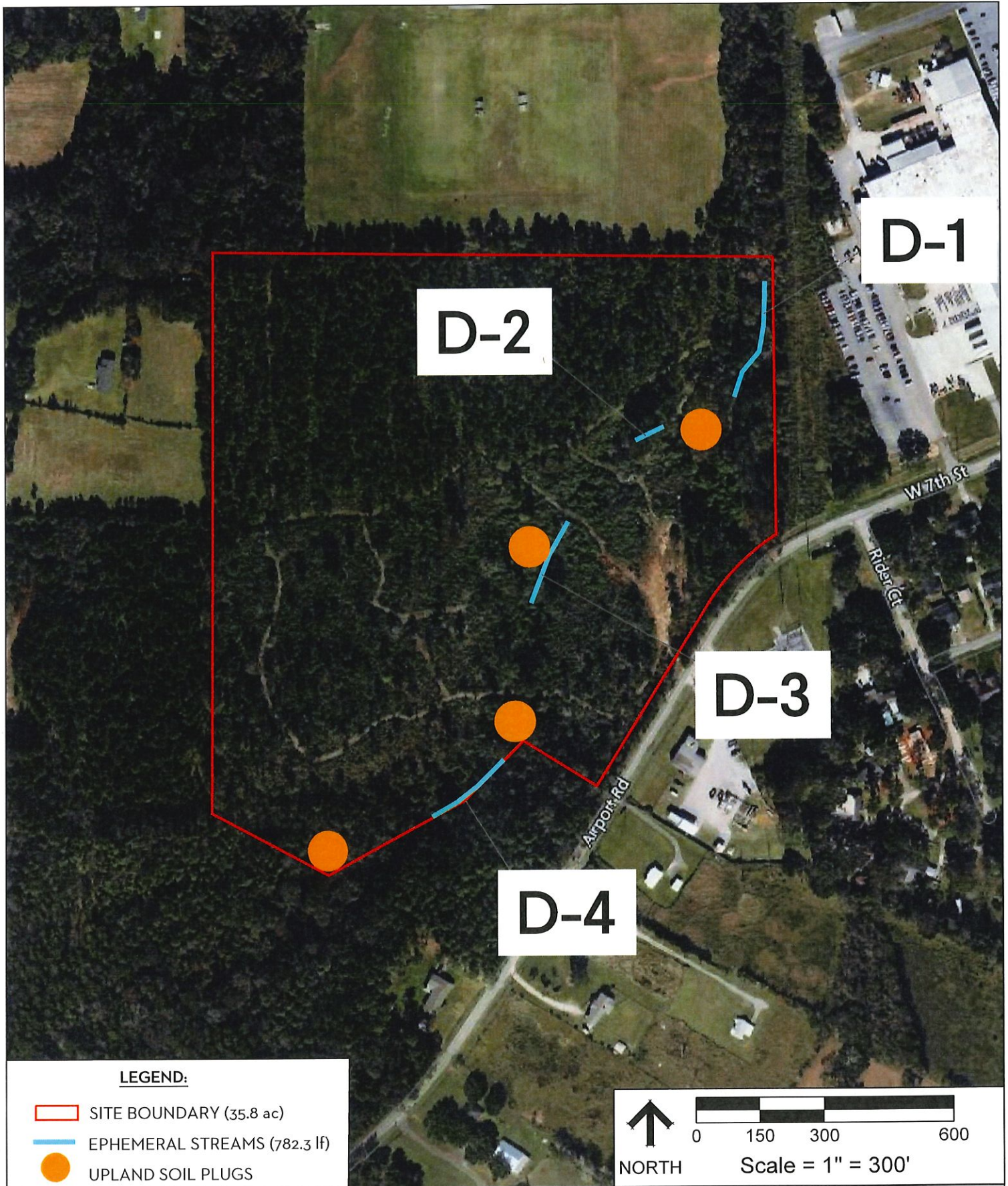
REF. SHEET: ESRI WORLD STREETS
 DESCRIPTION: WATERS OF THE U.S. DELINEATION
35.8-Acres Airport Road
 BAY MINETTE, BALDWIN COUNTY, ALABAMA

FIGURE 1
 GENERAL LOCATION MAP
 GMC # TBD
 DATE: 03/12/2024
 DRAWN BY: ARW

 
 NORTH Scale = 1" = 500'

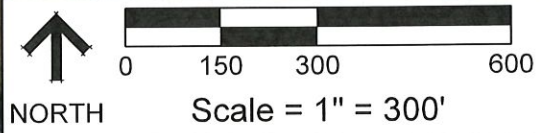
11 North Water Street, Suite 15250
 Mobile, AL 36602
 T 251.460.4006
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LEGEND:

- SITE BOUNDARY (35.8 ac)
- EPHEMERAL STREAMS (782.3 lf)
- UPLAND SOIL PLUGS



REF. SHEET: ESRI WORLD IMAGERY
DESCRIPTION: WATERS OF THE U.S. DELINEATION

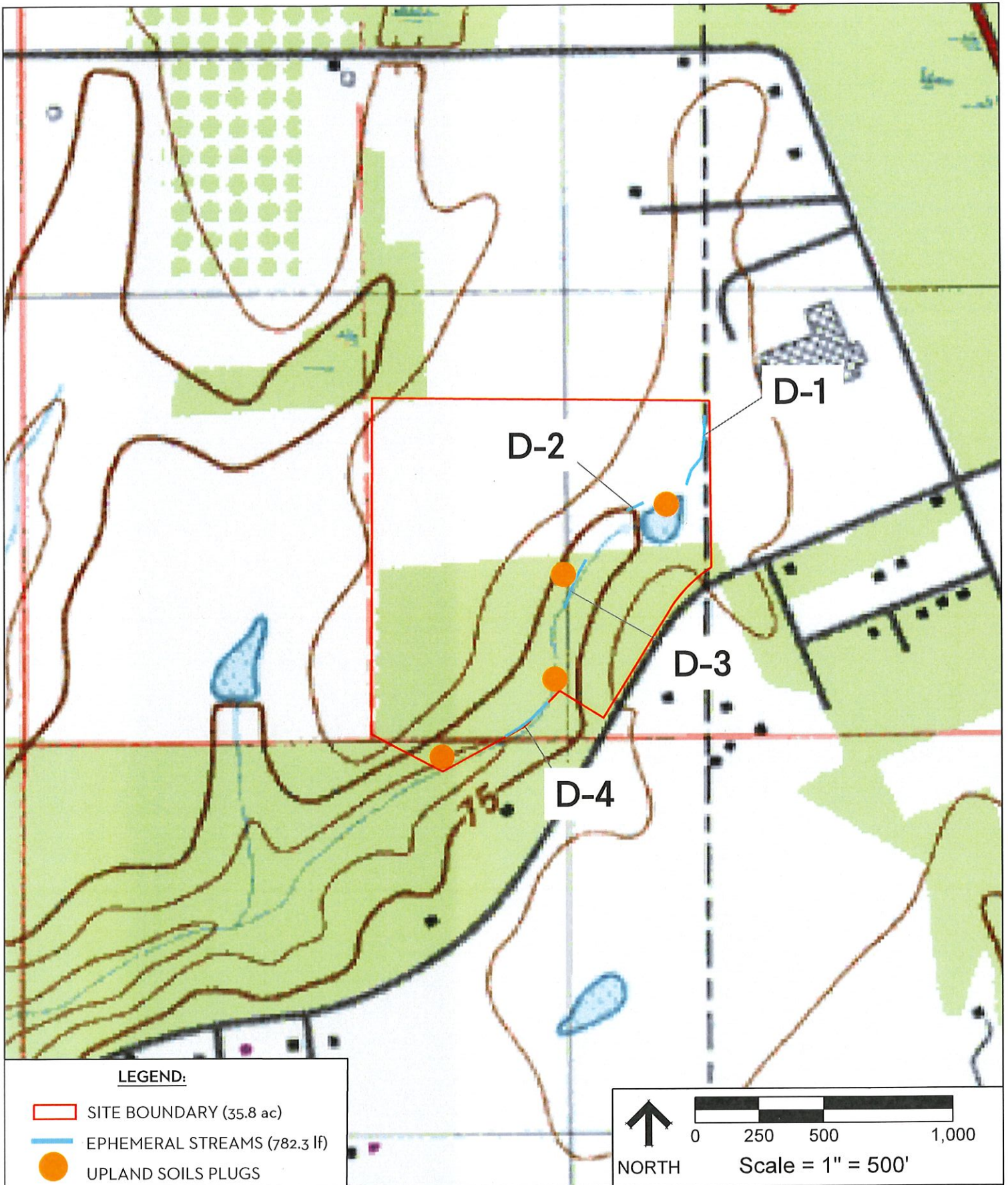
35.8-Acres Airport Road
BAY MINETTE, BALDWIN COUNTY, ALABAMA

FIGURE 2

AERIAL PHOTOGRAPH
GMC # TBD
DATE: 03/12/2024
DRAWN BY: ARW

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REF. SHEET: 1980 PHOTOREVISED 1985 BAY MINETTE, ALABAMA QUADRANGLE MAP
 DESCRIPTION: WATERS OF THE U.S. DELINEATION

35.8-Acres Airport Road
 BAY MINETTE, BALDWIN COUNTY, ALABAMA

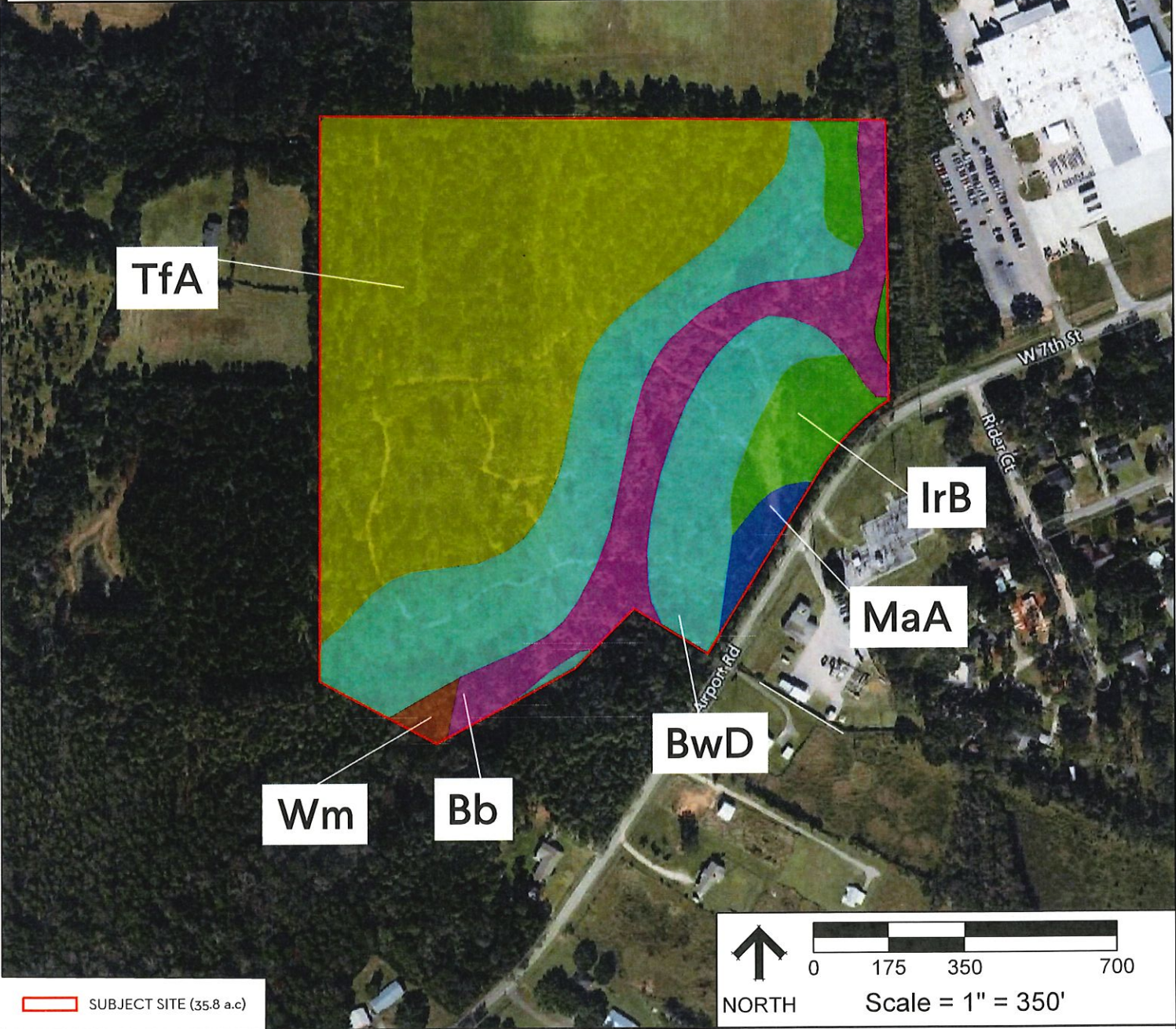
FIGURE 3

USGS QUADRANGLE MAP
 GMC # TBD
 DATE: 03/12/2024
 DRAWN BY: ARW

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Map Unit Symbol	Map Unit Name
Bb	Bibb and Mantachie soils, local alluvium
BwD	Bowie, Lakeland, and Cuthbert soils, 8 to 12 percent slopes
IrB	Irvington loam, 2 to 5 percent slopes
MaA	Malbis fine sandy loam, 0 to 2 percent slopes
TfA	Tifton very fine sandy loam, 0 to 2 percent slopes
Wm	Wet loamy alluvial land



<p>REF. SHEET: BALDWIN COUNTY SOIL SURVEY DESCRIPTION: WATERS OF THE U.S. DELINEATION</p> <p>35.8-Acres Airport Road BAY MINETTE, BALDWIN COUNTY, ALABAMA</p>	<p>FIGURE 4</p> <p>SOILS MAP GMC # TBD DATE: 03/12/2024 DRAWN BY: ARW</p>	<p>11 North Water Street, Suite 15250 Mobile, AL 36602 T 251.460.4006 GMCNETWORK.COM</p>
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GMC

P-1



General view of the access road.

P-2



General view of the central portion of the site.

P-3



General view of the northern portion of the site.

P-4



General view of D-1.

P-5



General view of D-2.

P-6



General view of the representative soils throughout the northern portion of the site.

P-7



General view of D-3.

P-8



General view of the representative soils throughout the central portion of the site.

P-9



General view of the southern portion of the site.

P-10



General view of D-4.

P-11



General view of the representative soils throughout the southern portion of the site.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Bay- Minette Airport Road City/County: Bay Minette, Baldwin Sampling Date: 2/27/2024

Applicant/Owner: _____ State: AL Sampling Point: Dry Data

Investigator(s): Rob Carlton, Ashtyn Walmsley Section, Township, Range: S-8, T2S, R3E

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): 2-12

Subregion (LRR or MLRA): MLRA Lat: 30.882772 Long: -87.793680 Datum: NAD83

Soil Map Unit Name: Bibb and Mantachie soils NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes _____ No

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: _____ _____ _____	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) ___ Saturation (A3) ___ Marl Deposits (B15) (LRR U) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: _____

VEGETATION – Use scientific names of plants.

Sampling Point: Dry Data

Tree Stratum (Plot sizes: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Water Oak (Quercus nigra)</u>	<u>5</u>	<u>yes</u>	<u>FAC</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>5</u> = Total Cover			
Sapling Stratum (<u>15 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Popcorn (Triadica sebifera)</u>	<u>10</u>	<u>yes</u>	<u>FAC</u>
2. <u>Sweet Gum (Liquidambar styraciflua)</u>	<u>5</u>	<u>yes</u>	<u>FAC</u>
3. <u>Water Oak (Quercus nigra)</u>	<u>5</u>	<u>yes</u>	<u>FAC</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>20</u> = Total Cover			
Shrub Stratum (<u>15 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rubus sp.</u>	<u>60</u>	<u>yes</u>	<u>FAC</u>
2. <u>Privet (Ligustrum sinense)</u>	<u>10</u>	<u>no</u>	<u>FAC</u>
3. <u>Golden Rod (Solidago odora)</u>	<u>10</u>	<u>no</u>	<u>FAC</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>80</u> = Total Cover			
Herb Stratum (<u>5 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Juncus sp.</u>	<u>5</u>	<u>yes</u>	<u>FACW</u>
2. <u>Hooded Blue Violet (Viola sororia)</u>	<u>5</u>	<u>yes</u>	<u>FAC</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
_____ = Total Cover			
Woody Vine Stratum (<u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Smilax sp.</u>	<u>1</u>	<u>yes</u>	<u>FAC</u>
2. <u>Yellow Jasmine (Gelsemium sempervirens)</u>	<u>5</u>	<u>yes</u>	<u>FAC</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 9 (A)

Total Number of Dominant Species Across All Strata: 11 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 81% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Definitions of Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

SOIL

Sampling Point: Dry Data

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/3						sandy l <input type="checkbox"/>	
2-6	10YR 3/4						sandy l <input type="checkbox"/>	
6-10	10YR 3/4	95%	7.5YR 5/6	5%	C	M	sandy l <input type="checkbox"/>	
10-12+	10YR 4/4						sandy l <input type="checkbox"/>	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12) (LRR T, U)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks: